

[illegible]



<210> 6  
<211> 38  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Cloning site  
for NCR insertion

<400> 6  
aggaaaaggg aacgcgtgtt aacttcgaag agctccct

38

<210> 7  
<211> 63  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Cloning site  
for supernumerary gene insert between the P and M  
genes of rHPIV3

<400> 7  
ttaacaatat acaaataaga aaaacttagg attaaagagc catggcgtac gaagcttacg 60  
cgt 63

<210> 8  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PIV3 gene end  
(GE) sequence

<400> 8  
aagtaagaaa aa

12

<210> 9  
<211> 58  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Cloning site  
for RSV G and F gene inserts in B/H PIV3

<400> 9

aggattaaag aactttaccg aaaggttaagg ggaaagaaat cctaagagct tagcgatg 58

<210> 10

<211> 11

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Flanking  
sequence for RSV G gene insert in B/H PIV3

<400> 10

gcttagcgat g 11

<210> 11

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Flanking  
sequence of RSV G and F gene inserts in B/H PIV3

<400> 11

aagctagcgc ttagc 15

<210> 12

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Flanking  
sequence for RSV F gene insert in B/H PIV3

<400> 12

gcttagcaaa aagctagcac aatg 24

<210> 13

<211> 83

<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Forward primer  
for PCR of measles HA gene insert for N-P and P-M  
junctions

<400> 13

ttaatcttaa gaatatacaa ataagaaaaa cttaggatta aagagcgatg tcaccacaac 60  
gagaccggat aaatgccttc tac 83

<210> 14

<211> 67

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Reverse primer  
for PCR of measles HA gene insert for N-P and P-M  
junctions

<400> 14

attattgctt aaggtttggt cgggtgctgt tctttgttgg atcctatctg cgattgggtc 60  
catcttc 67

<210> 15

<211> 55

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Forward primer  
for PCR of measles HA gene insert for HN-L  
junction

<400> 15

gacaataggc ctaaaaggga aatataaaaa acttaggagt aaagttacgc aatcc 55

<210> 16

<211> 68

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

Reverse/Forward primer for PCR of measles HA gene  
insert for HN-L junction

<400> 16

gtagaacgcg tttatccggt ctcgttgtgg tgacatctcg aatttggatt tgtctattgg 60  
gtccttcc 68

<210> 17

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Reverse primer  
for PCR of measles HA gene insert for HN-L  
junction

<400> 17

ccatgtaatt gaatccccca acactagc 28

<210> 18

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
Forward/Reverse primer for PCR of measles HA gene  
insert for HN-L junction

<400> 18

cggataaacg cgttctacaa agataacc 28

<210> 19

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Upstream HPIV2  
HN primer

<400> 19

gggccatgga agattacagc aat 23

<210> 20  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Downstream  
HPIV2 HN primer

<400> 20  
caataagctt aaagcattag ttccc 25

<210> 21  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Upstream HPIV2  
HN primer

<400> 21  
gcgatgggcc cgaggaagga cccaatagac a 31

<210> 22  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Downstream  
HPIV2 HN primer

<400> 22  
cccgggtcct gatttcccga gcacgctttg 30

<210> 23  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: HPIV1 HN

primer

<400> 23  
agtggctaatt tgcattgcat ccacat

26

<210> 24  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HPIV1 HN  
primer

<400> 24  
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24

<210> 25  
<211> 13  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Oligomer  
insert for rule-of-six conformity

<400> 25  
cgcggcaggc ctg

13

<210> 26  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Oligomer  
insert for rule-of-six conformity

<400> 26  
cgcggcaggc cctg

14

<210> 27  
<211> 15  
<212> DNA



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<223> Description of Artificial Sequence: Oligomer  
insert for rule-of-six conformity

cgcgaggcct ccgcg

15

<211> 16

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: Oligomer  
insert for rule-of-six conformity

cgcgccgcgg aggcct

16

<211> 17

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: Oligomer  
insert for rule-of-six conformity

cgcgcccgcg gaggcct

17

<211> 42

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: Forward primer  
for RSV A G gene insert

aattcgctta gcgatgtcca aaaacaagga ccaacgcacc gc

42

# Q&A

<220>

<223> Description of Artificial Sequence: Mutagenic  
forward primer for modification of rHPiV3-1 cDNA

<400> 34

cggccgtgac gcgtctccgc accggtgtat taagccgaag caaa

44

<210> 35

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Mutagenic  
reverse primer for modification of rHPiV3-1 cDNA

<400> 35

cccagacacg ctttgctcct aagtttttta tatttcccggt acgtctattg tctgattgc 59

<210> 36

<211> 95

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Forward primer  
for insertion of HPiV2 F ORF into rB/HPiV3 genome

<400> 36

aaaatatagc ggccgcaagt aagaaaaact taggattaaa ggcggatgga tcacctgcat 60  
ccaatgatag tatgcatttt tgttatgtac actgg 95

<210> 37

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Reverse primer  
for insertion of HPiV2 F ORF into rB/HPiV3 genome

<400> 37

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aaagacggca gg 72

<210> 38  
 <211> 81  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Forward primer  
 for insertion of HPIV2 HN ORF into rB/HPIV3 genome  
  
 <400> 38  
 ggaaaggcgc gccaaagtaa gaaaaactta ggattaaagg cggatggaag attacagcaa 60  
 tctatctctt aaatcaattc c 81  
  
 <210> 39  
 <211> 54  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Reverse primer  
 for insertion of HPIV2 HN ORF into rB/HPIV3 genome  
  
 <400> 39  
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 <210> 40  
 <211> 25  
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 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer for  
 construction of PIV3-2 chimeric cDNAs, PIV2 F  
 (sense)  
  
 <400> 40  
 gtaccatgga tcacctgcat ccaat 25  
  
 <210> 41  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>

<223> Description of Artificial Sequence: Primer for construction of PIV3-2 chimeric cDNAs, PIV2 F (antisense)

<400> 41

tgtggatcct aagatatccc atatatgttt c

31

<210> 42

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer for construction of PIV3-2 chimeric cDNAs, PIV2 F (sense)

<400> 42

atgcatcacc tgcattcaat

20

<210> 43

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer for construction of PIV3-2 chimeric cDNAs, PIV2 (antisense)

<400> 43

tagtgaataa agtgtcttgg ct

22

<210> 44

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer for construction of PIV3-2 chimeric cDNAs, PIV2 HN (sense)

<400> 44

catgagataa ttcattcttga tggt

24

0923652 10500

<223> Description of Artificial Sequence: Primer for construction of PIV3-2 chimeric cDNAs, PIV2 HN (antisense)

24

<223> Description of Artificial Sequence: Primer for construction of PIV3-2 chimeric cDNAs, PIV3 F (sense)

28

<223> Description of Artificial Sequence: Primer for construction of PIV3-2 chimeric cDNAs, PIV3 F (antisense)

19

14

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27

24

20

•

<400> 51  
gatgatgtag gcaatcagc

19

<210> 52  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer for  
construction of PIV3-2 chimeric cDNAs, PIV2 HN  
(sense)

<400> 52  
actgccacaa ttcttggc

18

<210> 53  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer for  
construction of PIV3-2 chimeric cDNAs, PIV2 HN  
(antisense)

<400> 53  
ttaaagcatt agttccctta aaaatg

26

<210> 54  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer for  
construction of PIV3-2 chimeric cDNAs, PIV3 F  
(sense)

<400> 54  
aagtattaca gaattcaaaa gag

23

<210> 55  
<211> 20





(sense)

<400> 58  
gatactatcc taatattatt gc

22

<210> 59  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer for  
construction of PIV3-2 chimeric cDNAs, PIV3 L  
(antisense)

<400> 59  
gctaattttg atagcacatt

20

<210> 60  
<211> 15492  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Sequence of  
pFLC.PIV32, 15492 bp in sense orientation

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accaaacaag agaagaaact tgtctgggaa tataaattta acttttaaatt aacttaggat 60  
taaagacatt gactagaagg tcaagaaaag ggaactctat aatttcaaaa atgttgagcc 120  
tatttgatac atttaatgca cgtaggcaag aaacataaac aaaatcagcc ggtggagcta 180  
tcattcctgg acagaaaaat actgtctcta tattcgccct tggaccgaca ataactgatg 240  
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aacatgcaca aagggcaggg ttcttggtgt ctttattgtc aatggcttat gccaatccag 360  
agctctacct aacaacaaat ggaagtaatg cagatgtcaa gtatgtcata tacatgattg 420  
agaaagatct aaaacggcaa aagtatggag gatttgtggt taagacgaga gagatgatat 480  
atgaaaagac aactgattgg atatttggaa gtgacctgga ttatgatcag gaaactatgt 540  
tgcagaacgg caggaacaat tcaacaattg aagaccttgt ccacacattt gggatatccat 600  
catgttttagg agctcttata atacagatct ggatagttct ggtcaaagct atcactagta 660  
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